

[First Hit](#)      [Previous Doc](#)      [Next Doc](#)      [Go to Doc#](#)

**End of Result Set**

☐ [Generate Collection](#) [Print](#)

L3: Entry 1 of 1

File: DWPI

Oct 22, 2002

DERWENT-ACC-NO: 2000-505773  
DERWENT-WEEK: 200301  
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Lawful interception method for packet networks e.g. general packet radio services (GPRS) ,universal mobile telecommunication system (UMTS) using intercept nodes and gateways

INVENTOR: HIPPELAEINEN, L; HIPPELAINEN, L

PATENT-ASSIGNEE:

ASSIGNEE

NOKIA NETWORKS OY

HIPPELAINEN L

CODE

OYNO

HIPPI

PRIORITY-DATA: 1999WO-EP00180 (January 14, 1999)

[Search Selected](#)

[Search ALL](#)

[Clear](#)

PATENT-FAMILY:

|                          | PUB-NO                   | PUB-DATE          | LANGUAGE | PAGES | MAIN-IPC   |
|--------------------------|--------------------------|-------------------|----------|-------|------------|
| <input type="checkbox"/> | <u>JP 2002535883 W</u>   | October 22, 2002  |          | 029   | H04L012/46 |
| <input type="checkbox"/> | <u>WO 200042742 A1</u>   | July 20, 2000     | E        | 028   | H04L012/56 |
| <input type="checkbox"/> | <u>AU 9926173 A</u>      | August 1, 2000    |          | 000   | H04L012/56 |
| <input type="checkbox"/> | <u>EP 1142218 A1</u>     | October 10, 2001  | E        | 000   | H04L012/56 |
| <input type="checkbox"/> | <u>CN 1338169 A</u>      | February 27, 2002 |          | 000   | H04L012/56 |
| <input type="checkbox"/> | <u>US 20020078384 A1</u> | June 20, 2002     |          | 000   | H04L009/00 |

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW DE ES FR GB IT

APPLICATION-DATA:

| PUB-NO         | APPL-DATE        | APPL-NO               | DESCRIPTOR |
|----------------|------------------|-----------------------|------------|
| JP2002535883W  | January 14, 1999 | <u>1999WO-EP00180</u> |            |
| JP2002535883W  | January 14, 1999 | 2000JP-0594228        |            |
| JP2002535883W  |                  | WO 200042742          | Based on   |
| WO 200042742A1 | January 14, 1999 | <u>1999WO-EP00180</u> |            |
| AU 9926173A    | January 14, 1999 | <u>1999AU-0026173</u> |            |
| AU 9926173A    | January 14, 1999 | <u>1999WO-EP00180</u> |            |

|                 |                  |                       |          |
|-----------------|------------------|-----------------------|----------|
| AU 9926173A     |                  | WO 200042742          | Based on |
| EP 1142218A1    | January 14, 1999 | 1999EP-0906126        |          |
| EP 1142218A1    | January 14, 1999 | <u>1999WO-EP00180</u> |          |
| EP 1142218A1    |                  | WO 200042742          | Based on |
| CN 1338169A     | January 14, 1999 | 1999CN-0815603        |          |
| CN 1338169A     | January 14, 1999 | <u>1999WO-EP00180</u> |          |
| US20020078384A1 | January 14, 1999 | <u>1999WO-EP00180</u> | Cont of  |
| US20020078384A1 | July 10, 2001    | 2001US-0901814        |          |

INT-CL (IPC): H04 L 9/00; H04 L 12/26; H04 L 12/46; H04 L 12/56; H04 L 29/06

ABSTRACTED-PUB-NO: US20020078384A

BASIC-ABSTRACT:

NOVELTY - The lawful interception nodes (LIN) are arranged as passive packets sniffers and filter on Ethernet segments so that all data transmitted via the backbone can be intercepted .It is able to read GPRS tunneling protocol (GTP) and then transmit to the lawful interception gateway (LIG) via the same physical interface. The intercepted packet is transmitted via a secure tunnel provided by an encryption process.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an interception system for performing a lawful interception in a packet network.

USE - For general packet radio services, universal mobile telecommunication systems network.

ADVANTAGE - The system is easily scalable because new lawful interception node (LIN) capacity can be added as the load increases and the interception gateway can be distributed over several units without adding hardware to it. In the event of a failure of the LIN some interception functions may not be available, this does not affect network functionality.

DESCRIPTION OF DRAWING(S) - The figure shows a principle block diagram of a system for performing a lawful interception.

Lawful Interception Node LIN

Lawful Interception Gateway LIG

ABSTRACTED-PUB-NO:

WO 200042742A

EQUIVALENT-ABSTRACTS:

NOVELTY - The lawful interception nodes (LIN) are arranged as passive packets sniffers and filter on Ethernet segments so that all data transmitted via the backbone can be intercepted .It is able to read GPRS tunneling protocol (GTP) and then transmit to the lawful interception gateway (LIG) via the same physical interface. The intercepted packet is transmitted via a secure tunnel provided by an encryption process.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an interception system for performing a lawful interception in a packet network.

USE - For general packet radio services, universal mobile telecommunication systems network.

ADVANTAGE - The system is easily scalable because new lawful interception node (LIN) capacity can be added as the load increases and the interception gateway can be distributed over several units without adding hardware to it. In the event of a failure of the LIN some interception functions may not be available, this does not affect network functionality.

DESCRIPTION OF DRAWING(S) - The figure shows a principle block diagram of a system for performing a lawful interception.

Lawful Interception Node LIN

Lawful Interception Gateway LIG

CHOSEN-DRAWING: Dwg.2/4

TITLE-TERMS: INTERCEPT METHOD PACKET NETWORK GENERAL PACKET RADIO SERVICE UNIVERSAL MOBILE TELECOMMUNICATION SYSTEM INTERCEPT NODE GATEWAY

DERWENT-CLASS: W01 W02

EPI-CODES: W01-A03B; W01-A05A; W01-A06A; W01-A06B7; W01-A06G2; W01-B05A1A; W01-C02B6; W02-C03C1A;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-374034

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#)      [Previous Doc](#)      [Next Doc](#)      [Go to Doc#](#)

**End of Result Set**

☐ [Generate Collection](#) [Print](#)

L4: Entry 1 of 1

File: DWPI

Jun 9, 2004

DERWENT-ACC-NO: 1999-263832  
DERWENT-WEEK: 200438  
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Traffic interception method e.g. for mobile packet radio network such as GPRS

INVENTOR: HAUMONT, S

**PATENT-ASSIGNEE:**

|                   |      |
|-------------------|------|
| ASSIGNEE          | CODE |
| NOKIA TELECOM OY  | OYNO |
| NOKIA NETWORKS OY | OYNO |
| NOKIA CORP        | OYNO |

PRIORITY-DATA: 1997FI-0003806 (September 26, 1997)

[Search Selected](#) [Search ALL](#) [Clear](#)

**PATENT-FAMILY:**

|                          | PUB-NO                          | PUB-DATE          | LANGUAGE | PAGES | MAIN-IPC   |
|--------------------------|---------------------------------|-------------------|----------|-------|------------|
| <input type="checkbox"/> | <a href="#">EP 1018241 B1</a>   | June 9, 2004      | E        | 000   | H04L012/24 |
| <input type="checkbox"/> | <a href="#">WO 9917499 A2</a>   | April 8, 1999     | E        | 024   | H04L012/24 |
| <input type="checkbox"/> | <a href="#">FI 9703806 A</a>    | March 27, 1999    |          | 000   | H04Q007/20 |
| <input type="checkbox"/> | <a href="#">AU 9893515 A</a>    | April 23, 1999    |          | 000   | H04L012/24 |
| <input type="checkbox"/> | <a href="#">EP 1018241 A2</a>   | July 12, 2000     | E        | 000   | H04L012/24 |
| <input type="checkbox"/> | <a href="#">FI 106509 B1</a>    | February 15, 2001 |          | 000   | H04Q007/20 |
| <input type="checkbox"/> | <a href="#">CN 1277771 A</a>    | December 20, 2000 |          | 000   | H04L012/24 |
| <input type="checkbox"/> | <a href="#">TW 429710 A</a>     | April 11, 2001    |          | 000   | H04L012/54 |
| <input type="checkbox"/> | <a href="#">JP 2001518744 W</a> | October 16, 2001  |          | 031   | H04L012/56 |
| <input type="checkbox"/> | <a href="#">US 6654589 B1</a>   | November 25, 2003 |          | 000   | H04B017/00 |

DESIGNATED-STATES: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE AL AM AT AU AZ BA  
BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK  
LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN  
YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW AT  
BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

**APPLICATION-DATA:**

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------|-----------|---------|------------|
|--------|-----------|---------|------------|

|               |                    |                       |                |
|---------------|--------------------|-----------------------|----------------|
| EP 1018241B1  | September 25, 1998 | 1998EP-0946489        |                |
| EP 1018241B1  | September 25, 1998 | <u>1998WO-FI00762</u> |                |
| EP 1018241B1  |                    | WO 9917499            | Based on       |
| WO 9917499A2  | September 25, 1998 | <u>1998WO-FI00762</u> |                |
| FI 9703806A   | September 26, 1997 | 1997FI-0003806        |                |
| AU 9893515A   | September 25, 1998 | 1998AU-0093515        |                |
| AU 9893515A   |                    | WO 9917499            | Based on       |
| EP 1018241A2  | September 25, 1998 | 1998EP-0946489        |                |
| EP 1018241A2  | September 25, 1998 | <u>1998WO-FI00762</u> |                |
| EP 1018241A2  |                    | WO 9917499            | Based on       |
| FI 106509B1   | September 26, 1997 | 1997FI-0003806        |                |
| FI 106509B1   |                    | FI 9703806            | Previous Publ. |
| CN 1277771A   | September 25, 1998 | 1998CN-0810507        |                |
| TW 429710A    | September 30, 1997 | 1997TW-0114332        |                |
| JP2001518744W | September 25, 1998 | <u>1998WO-FI00762</u> |                |
| JP2001518744W | September 25, 1998 | 2000JP-0514433        |                |
| JP2001518744W |                    | WO 9917499            | Based on       |
| US 6654589B1  | September 25, 1998 | <u>1998WO-FI00762</u> |                |
| US 6654589B1  | March 24, 2000     | 2000US-0509318        |                |
| US 6654589B1  |                    | WO 9917499            | Based on       |

INT-CL (IPC): H04 B 7/26; H04 B 17/00; H04 L 12/24; H04 L 12/54; H04 L 12/56; H04 Q 7/20; H04 Q 7/34; H04 Q 7/38

ABSTRACTED-PUB-NO: WO 9917499A

BASIC-ABSTRACT:

NOVELTY - A legal interception node (LIN) is installed into a network and in response to an order from a law enforcement authority (LEA), some of the traffic to be intercepted is sent to the LIN. The LIN sends some of the traffic sent to it to the LEA. Before the LIN sends some of the traffic, the LIN converts the traffic to a format supported by the LEA.

USE - For mobile packet radio network such as GPRS.

ADVANTAGE - Avoids need to intercept traffic in several different network element such as SGSN and GGSN nodes. No unnecessary information related to identity of suspected user is given away to third party. Allows law enforcement authorities to intercept communications to/from suspected user either in user's home network or his/her visited network. Honest (but suspected) users are not burdened with extra charging and dishonest users can detect long term intercepting by means of increased charging. In most situations, added delays are too small to be detectable.

DESCRIPTION OF DRAWING(S) - The figure shows a signaling diagram illustrating an embodiment of the invention.

CHOSEN-DRAWING: Dwg.3/3

TITLE-TERMS: TRAFFIC INTERCEPT METHOD MOBILE PACKET RADIO NETWORK

DERWENT-CLASS: W01-W02 -

EPI-CODES: W01-B03A; W01-B05A1A; W01-C02B2; W01-C02B6; W01-C08F; W02-C03C1;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-196535

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)